



**Illinois Sustainable Technology Center**  
Division of The Institute for Natural Resource Sustainability  
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## **ISTC 2008-2009 Seminar Series on *Sustainability***

The sustainability series this year is entitled ***"The Path to Curbing Global Warming: Becoming Carbon Neutral"***. The series will examine various opportunities for curbing global warming, particularly discussing building and lighting efficiency, green construction practices, and geothermal, wind and solar power. Emphasis will be on implemented projects that showcase what is being done in various communities, businesses, universities, and by individuals. This fall the focus will be on sustainable construction and buildings.

This is a year-long series of seminars, usually one or two per month, presented by researchers, business professionals, and policy makers. The series is an opportunity to share scientific research and discussion with peers in a relaxed, informal environment. Please feel free to bring a lunch. Seminars usually last about an hour and questions are welcome. The seminars will be broadcast live and also archived on the ISTC website at [www.istc.illinois.edu](http://www.istc.illinois.edu).

### ***Positive Net Energy Homes – the Passive House Concept***

*Presented by*

***Katrin Klingenberg***

***Co-founder of the Passive House Institute US***

The Passive House movement began in the US, was carried on in Germany and Sweden, spread through Europe, and is now being reintroduced in North America. An underlying principle is that developed countries need to reduce the emissions from space conditioning their homes by at least 90% on average to bring them within sustainable levels. Not only is this achievable, but available tools help make it cost-effective.

Passive House US sets performance-based limits for maximum heating/cooling load, annual space conditioning demand, and total annual home energy consumption. Building closures are so tight and well insulated that heat recovery ventilation becomes the principal -or only- mechanical system. Electric and water loads are small and met by renewable sources. Packages of building measures and retrofit strategies can be developed for any combination of climate, geographic region, and building typology.

**WHEN: Noon to 1 p.m., Tuesday, October 28, 2008**

**WHERE: Stephen J. Warner Conference Room at ISTC (formerly WMRC)**

*You can reach ISTC via the No. 23 West shuttle bus from campus. There is also a bicycle rack available. If you drive over, please park in the front circle drive or by the parking meters in the lot next to the building. You might otherwise receive a parking ticket from UI parking officials.*

